

The Epic

for the

Search

Golden

Apple

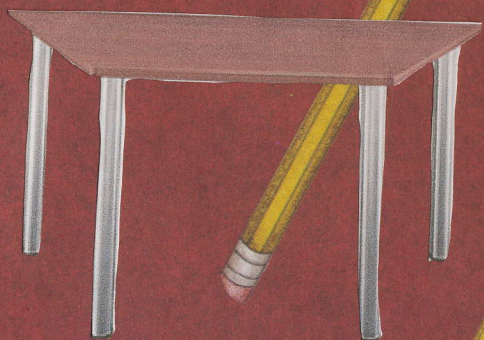
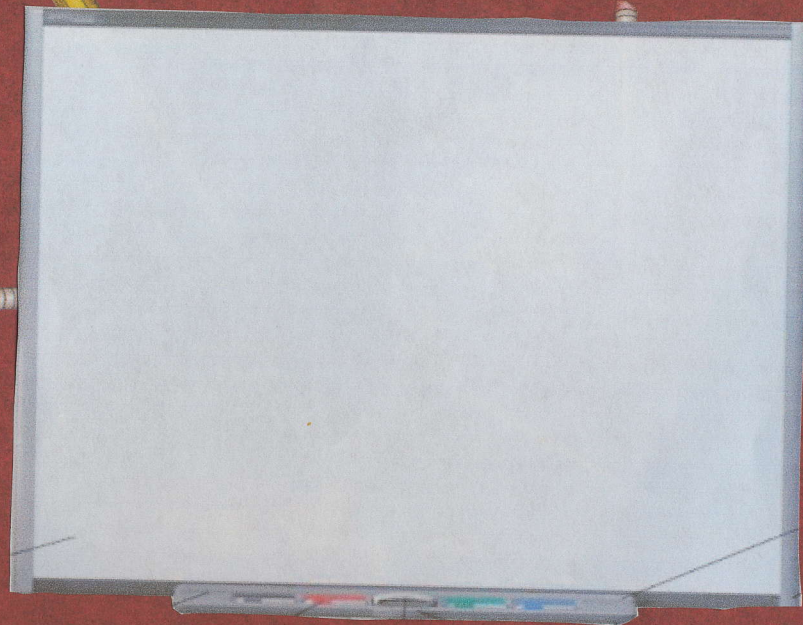
by.

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&

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Polygon Polly and Adjacent Andrew were waiting in class for Mrs. Powell. The bell rang for class to start and Mrs. Powell was nowhere to be found.



My Schedule

9:00- College dining area that has exactly 4 vertices sides and angles. The sum of the interior angles are 360° . Exactly two diagonals can be drawn and at least one of those can divide the figure into two triangles.

9:30-go to fitting appointment for the quadrilateral with two pairs of adjacent sides congruent that lies on my finger.

10:15-Fix the small quadrilateral in which both pairs of opposite sides are parallel and holds music.

Then, Mrs. Powell ran in flustered and discombobulated and searched all throughout her room.

"Whats wrong Mrs. Powell? We're here to help!" said Polygon Polly and Adjacent Andrew.

"EVIL Gillespie stole my golden apple!" she yelled. "I found her schedule, but its in code of polygon properties and definitions. Can you help? My mind has gone since my golden apple hasn't been by my side!"

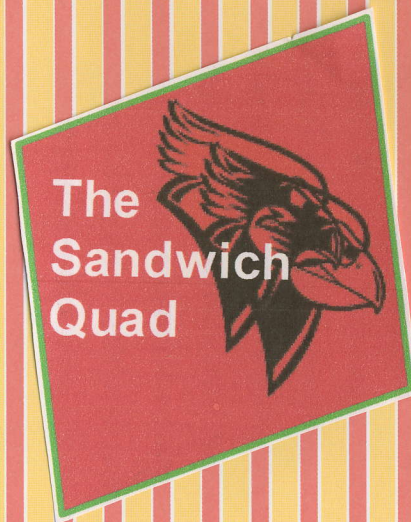
The first thing on her schedule read,

9:00- College dining area that has exactly 4 vertices sides and angles. The sum of the interior angles are 360° . Exactly two diagonals can be drawn and at least one of those can divide the figure into two triangles.

Polygon Polly remembered the property map and remembered that that her schedule was describing the properties of a quadrilateral.

"The dining area is a quadrilateral! What college dining areas are quadrilaterals?" said Polly.

"Home of the quadrilateral sandwiches... The Sandwich Quad in the ISU campus!!" exclaimed Andrew.



Quadrilateral

- angles add to 360 degrees
- 2 diagonals can be drawn
- one diagonal divides the figure into 2 triangles

They quickly left for the Sandwich Quad. Once they met at the quad, they asked one of the quad employees if they had seen the EVIL Gillespie.

"Yeah she came in," said the employee, "but she left a bit ago."

Determined not to give up, Polly and Andrew quickly looked at the next thing Gillespie had written on her schedule. 9:30-go to fitting appointment for the quadrilateral with two pairs of adjacent sides congruent that lies on my finger.





Kite

Definition: Quadrilateral
with two pairs of adjacent
sides congruent

Polygon Polly and Adjacent Andrew started to list off quadrilaterals that described the definition. They came to the conclusion that it was the closest definition of a kite!

"How could a kite be fitted on her finger?" asked Andrew.

"A ring!" exclaimed Polly.

"What does a ring have to do with it?"

"A diamond is often in the shape of a kite!" said Polly.

"Of course! Lets head to the jewelry store!"

Once they were in the jewelry store, they quickly saw EVIL Gillespie leave in her car.

"Oh no, she just left! What does she have next on her schedule?" said Polly.

10:15-Fix the small quadrilateral in which both pairs of opposite sides are parallel and holds music.

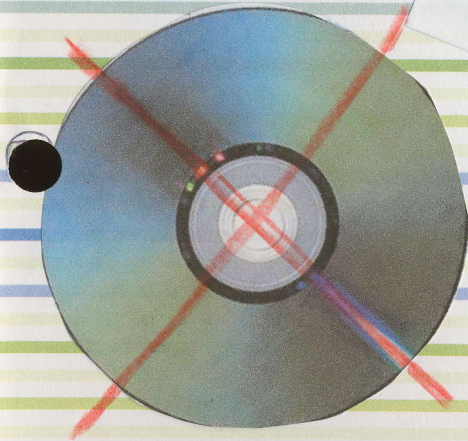
"What holds music?" questioned Andrew.

"A CD?"

"A CD is round, and doesn't have sides that are parallel. Parallel sides are consisted of lines that never meet." he replied.

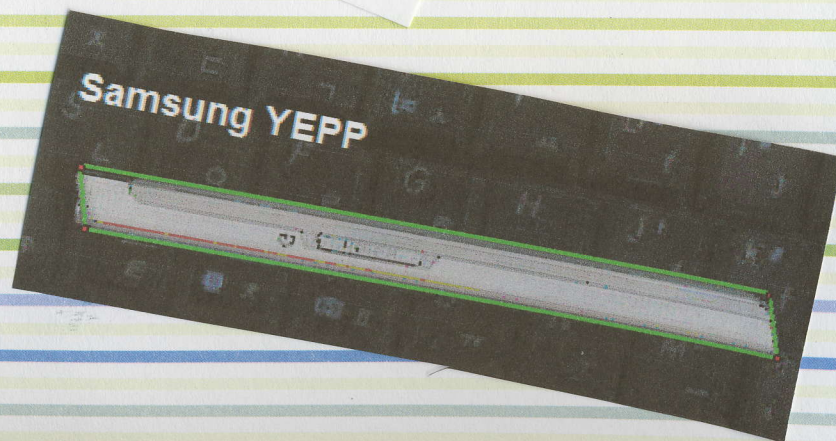
"A Samsung YEPP? They hold music and its opposite sides are parallel, like a parallelogram."

"Yeah, that's it! Lets head to the Samsung store."



Parallelogram

Definition: Quadrilateral in which both pairs of opposite sides are parallel



When Polygon Polly and Adjacent Andrew were in the store, they saw the EVIL Gillespie waiting in line. They started to run to meet her, but once she saw them, she dashed straight to her car.

"Quick catch her!" said Adjacent Andrew.

Polly and Andrew sprinted as fast as they could and beat her to the car.

"Where is Mrs. Powell's Golden Apple?" Polygon Polly yelled.

"You figured out my schedule so far, but I doubt you will figure out where it is with the clue I give you!" she grinned evilly. "Go to the place that holds significant amounts of data and is a parallelogram in the shape of both a rectangle and a rhombus, to find where the golden apple is!"

She quickly turned on her car, and speedily left the parking lot laughing.

"She did give us a hard clue." Andrew said disappointedly. "What best describes the definition she gave us? Can a parallelogram be both a rectangle and a rhombus?"

Polly sat and thought, *What were the properties of rectangles and rhombuses?*

RHOMBUS

All sides congruent

Diagonals bisect opposite angles

Diagonals make four congruent right triangles

Diagonals are perpendicular.

RECTANGLE

All right angles

6 pairs of supplementary angles

"A square has all of those properties!" Polly concluded.

"You're right! And you know what else? A computer is in the shape of a square, and it can hold TONS of data!" said Andrew.

"Let's go to the computer lab, quick!" Polygon Polly and Adjacent Andrew met at the computer lab in school and started searching the room. While they were searching, a little glimmer in the corner of the room caught Polly's eye.

"I think I see it!" she yelled excitedly.

Square

Definition: Parallelogram that is both a rectangle and a rhombus

Andrew ran to where he thought he saw the glimmer and found the golden apple hidden behind one of the computer monitors.

"Mrs. Powell will be very happy to have this back!" said Polly. "It's a good thing we know our Polygon properties and definitions!"



Lift sticker

And
golden app
"Mrs.
good thing w

aw the glimmer and found the
uter monitors.
this back!" said Polly. "It's a
d definitions!"



Lift sticker

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